

## **ABSTRACT OF THE DISCLOSURE**

**[0108]** A tool-less connector with multiple contacts and a compact design is provided. Therefore, a connector that is normally tunneled through body tissue will now require only a minimally invasive subcutaneous tunnel, which should reduce tissue healing time, patient discomfort, and risk of infection. In addition, providing additional contacts allows enhanced stimulation protocols. One embodiment of the present invention provides a connector pin containing multiple in-line contacts. Each "line" consists of a row of independent contacts arranged in a linear array running along the long axis of the pin. In other embodiments of the invention, the mating receptacle of the connector allows for multiple contacts while minimizing the space required for the increased number of contacts. Additional embodiments provide features that, for instance, prevent the contacts on the connector pin to touch the contacts in the receptacle until all contacts are appropriately aligned.